

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

To:

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Date of mailing (day/month/year) 26 October 2006 (26.10.2006)	
Applicant's or agent's file reference G204092	IMPORTANT NOTIFICATION
International application No. PCT/JP2005/006066	International filing date (day/month/year) 30 March 2005 (30.03.2005)
Applicant ZEON CORPORATION et al	

1. Transmittal of the translation to the applicant.



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference G204092	FOR FURTHER ACTION		See item 4 below
International application No. PCT/JP2005/006066	International filing date (<i>day/month/year</i>) 30 March 2005 (30.03.2005)	Priority date (<i>day/month/year</i>) 31 March 2004 (31.03.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant ZEON CORPORATION			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Box No. I | Basis of the report |
| <input type="checkbox"/> Box No. II | Priority |
| <input type="checkbox"/> Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> Box No. VI | Certain documents cited |
| <input type="checkbox"/> Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70	Date of issuance of this report 19 October 2006 (19.10.2006)
	Authorized officer Masashi Honda e-mail: pt08@wipo.int

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

TRANSLATION

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

G204092

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2005/006066

International filing date (day/month/year)

30.03.2005

Priority date (day/month/year)

31.03.2004

International Patent Classification (IPC) or both national classification and IPC

Applicant

ZEON CORPORATION

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1(b)(a) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/006066

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language: _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/006066

Box No. V	Reasoned statement under Rule 4bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statements			
Novelty (N)	Claims	1-13	YES
	Claims		NO
Inventive step (IS)	Claims	1-13	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-13	YES
	Claims		NO
2. Citations and explanations:			
Document 1: JP 2003-144958 A (TSRC Corp.), 20 May 2003			
Claims 1-10			
<p>The inventions in claims 1-10 appear to possess an inventive step based on document 1 cited in the ISR.</p> <p>Document 1 does not describe a manufacturing method for producing a rubbery polymer where polymer latex and a coagulating liquid containing a coagulant are supplied to a pump with crushing function of capacity over 10m, where the rubbery polymer component is coagulated by means of contact between the polymer latex and coagulant resulting in a crumb slurry containing crumb-like rubbery polymer. On the other hand, the invention of the present application exhibits positive benefit, namely the prevention of rubbery polymer components from clogging within the pump and tubing and the improvement of the dispersion of crumb-like rubbery polymer within the slurry.</p>			
Claim 11			
<p>The invention in claim 11 appears to possess an inventive step based on document 1 cited in the ISR.</p> <p>Document 1 does not describe a rubbery polymer manufacturing apparatus having a pump with crushing function of capacity over 10m which allows within the contact mixing of polymer latex and coagulating liquid containing coagulant. On the other hand, the invention of the present application exhibits positive benefit, namely the prevention of rubbery polymer clogging while creating slurry where the dispersion of crumb-like rubbery polymer is good.</p>			
Claim 12			
<p>The invention in claim 12 appears to possess an inventive step based on document 1 cited in the ISR.</p> <p>Document 1 does not describe a manufacturing method for producing rubbery polymer where as the first step polymer latex and a coagulating liquid containing coagulant are supplied to a pump with crushing function and the rubbery polymer component is coagulated through contact between polymer latex and coagulant resulting in a crumb slurry with crumb-like rubbery polymer, and where as the second step the crumb slurry is released into the environment by transmission through a pipe where the ratio of the length of the tube</p>			

Supplement of Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: Box V

L , and inner diameter of the output orifice D (L/D) is less than or equal to 20. On the other hand, the invention of the present application exhibits positive benefit, namely preventing the rubbery polymer component clogging within the pump and pipe, as well as improving the dispersive quality of the crumb-like rubbery polymer within the slurry.

Claim 13

The invention in claim 13 appears to possess an inventive step based on document 1 cited in the ISR.

Document 1 does not describe a rubbery polymer manufacturing apparatus where polymer latex and a coagulating liquid containing a coagulant can be contact-mixed within a pump with crushing function, where a pipe releases the crumb slurry containing crumb-like rubbery polymer exhausted from the output orifice of the pump with crushing function, and where the ratio between the pipe length L and the inner diameter of the output orifice D (L/D) is less than or equal to 20. On the other hand, the invention of the present application exhibits positive benefit, preventing clogging of rubbery polymer components while producing a slurry where the dispersive quality of the crumb-like rubbery polymer is good.